14. The method defined in claim 13 wherein said portion of said conductor having said resistance is a piece of current supply line connecting the power line with said motor-control circuit.

15. The method defined in claim 13 wherein the voltage drop is measured and the current draw is calculated from said voltage drop by a computing unit forming part of said motor-control circuit.

16. The method defined in claim 13 wherein a current measured in said portion of said conductor is converted into a current draw of said pump.

17. The method defined in claim 13 wherein in calculating said current draw from said voltage drop, a computer unit forming part of said motor control circuit effects a compensate for regulating action in response to a temperature of said portion of said conductor.

18. An electronically controlled pump assembly comprising:

an electric motor having a power line connected thereto for energizing said electric motor;

a motor control circuit connected to said motor and said power line for electronically controlling said pump assembly;

a pump driven by said motor; and

means for measuring a voltage drop across at least a portion of a conductor in the form of a wire segment having a definite resistance and connecting said power line with said motor control circuit and calculating said current draw from said voltage drop.

19. The assembly defined in claim 18 wherein said portion of said conductor is a piece of resistance wire with a known specific resistance and a defined length.

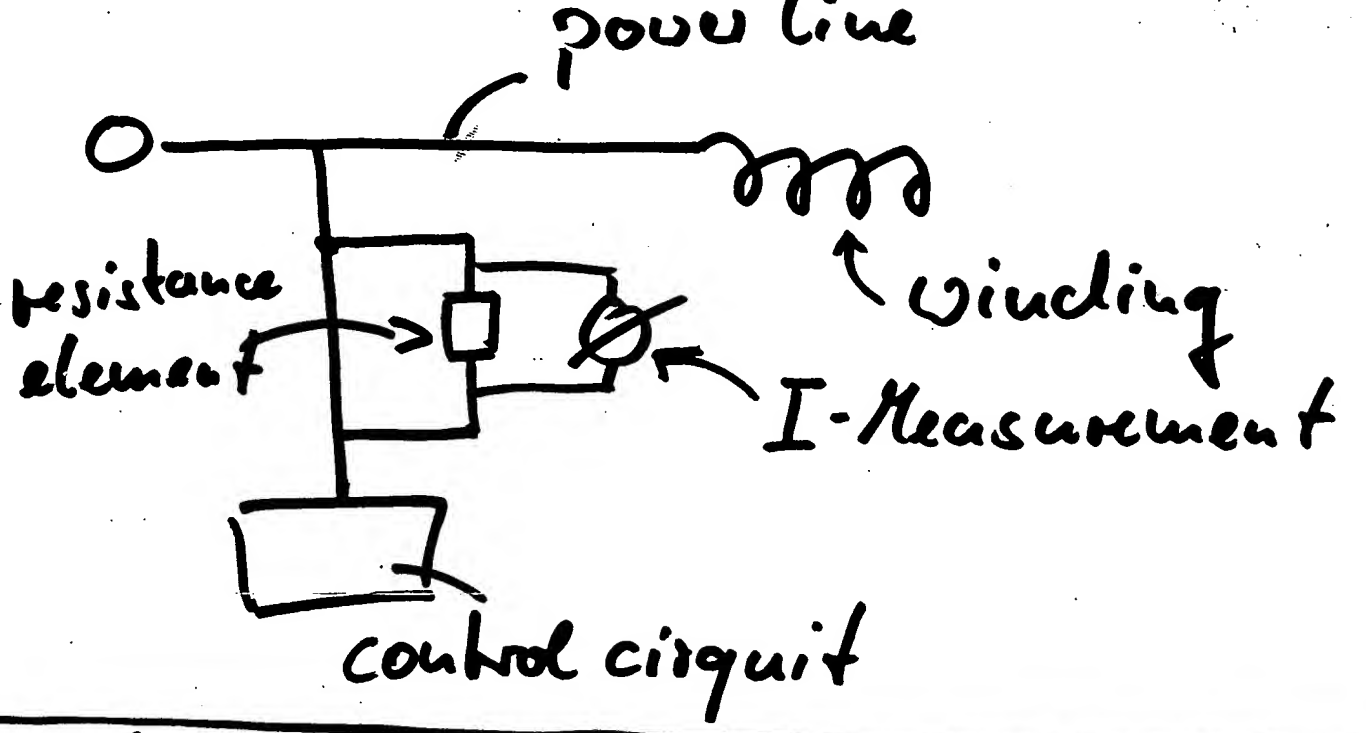
20. The assembly defined in claim 18 wherein said portion of said conductor is a bridge between a plug contact to which said power line is connected and a printed circuit board carrying said motor control circuit, said bridge having a defined resistance.

21. The assembly defined in claim 18 wherein said resistance is between 1 and 5 mΩ.

22. The assembly defined in claim 18, further comprising a processor forming part of said motor control circuit and constituting the means for measuring and calculating.

23. The assembly defined in claim 18 wherein said processor is provided to effect a regulatory action in response to the temperature of said portion of said conductor.

State of the art



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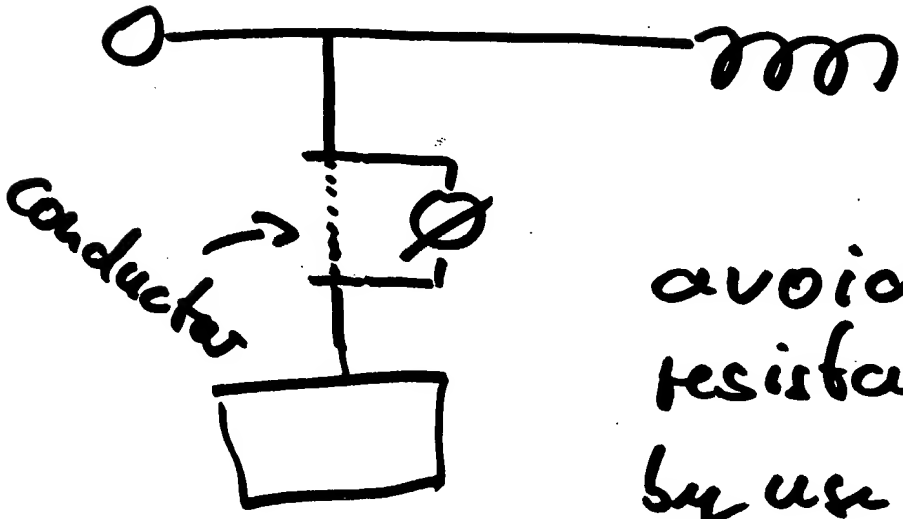
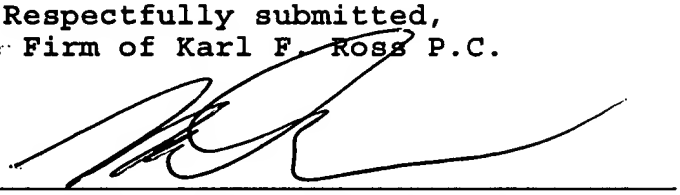
invention



avoid the resistance element by use of a conductor having known resistance.

Claims 13-23 are thus deemed to be allowable and an early Notice to that effect is earnestly solicited.

Respectfully submitted,
The Firm of Karl F. Ross P.C.



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Enclosures: Claims 13, 17 and 18
Marked-up version of claims 13, 17, 18
Sketch showing invention